**Lab Sheet-II**

**INSTRUCTIONS**

Given below are the lab questions for the day. For each question, you should prepare a document with following titles.

1. PROBLEM
2. ALGORITHM
3. CODE (with formal coding standard)
4. TESTING
   1. INPUT SET
   2. OUTPUT

**QUESTIONS**

**[For all the questions, intermediary results should also be displayed.]**

1. Implement Linear Search Algorithm for
2. Finding the largest integer and its position, in an integer array.
3. Finding the Smallest integer and its position, in an integer array.
4. Finding the character with highest ASCII value and its position, in a character array.
5. Finding the character with smallest ASCII value and its position, in a character array.
6. Implement Bubble Sort algorithm to sort an integer array in ascending order.
7. Implement Bubble Sort algorithm to sort an integer array in descending order.
8. Implement Insertion sort algorithm to sort an integer array in ascending order.
9. Implement Insertion Sort algorithm to sort an integer array in descending order.
10. Implement Binary Search algorithm to find an element in an unsorted array.
11. Implement merge sort algorithm to sort an integer array.